MU-SPIN Presentation Proposal

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Short Title: Satellite Imaging GOES to School

Brief Description of the Session:

Session will demonstrate how Real-Time Satellite Imagery educates, motivates, challenges, and inspires middle school students to work as scientists in pursuing collaborative research in science and math.

Session Abstract:

The 'You Be The Scientist' (YBTS) program has proven to be a highly effective tool designed to maximize awareness and utilization of GOES digital satellite data from NASA & NOAA to meet core Earth Science learning objectives and to develop marketable skills in the area of computer technology, research, data analysis, & computer visualization. Implementing this project is Elizabeth City State University (ECSU), at which the MU-SPIN Office of Goddard Space Flight Center has established a Network Resources and Training Site (NRTS). ECSU brings YBTS to middle schools in its region in an effort to enhance the study of mathematics and science by underrepresented minority students. The program is designed to aggressively strengthen the current Earth System Science (ESS) outreach to EZ/EC middle schools by NASA'S OFFICE OF EARTH SCIENCE EDUCATION. YBTS inspires career interests and enhances the development of future scientists and engineers through collaborative research relationships between NASA and MU-SPIN institutions and partners. The use of technology and this study of Real-Time weather data launches students into the 21st century with organized, integrated science and technology enrichment activities in the course of scientific exploration. Students become collectors of information and learn how to record, analyze, and interpret satellite images in a practical, useful manner. Students post-process and enhance the raw satellite images that weather experts use. They learn to ask questions and critique solutions. They become more aware of their environment and the changes that taking place in and around their community, state, country, and beyond. (248 words)